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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/046,295	01/16/2002	Karen Swider Lyons	83,068	2321	
Naval Research	7590 03/03/200 Laboratory	EXAMINER			
Code 1008.2	•	BOS, STEVEN J			
4555 Overlook Ave., S.W. Washington, DC 20375-5320			ART UNIT	PAPER NUMBER	
,			1793		
			MAIL DATE	DELIVERY MODE	
			03/03/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.		Applicant(s)					
Office Action Summary		10/046,295		LYONS ET AL.					
		Examiner		Art Unit					
		Steven Bos		1793					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
•	Responsive to communication(s) filed on 20 This action is FINAL . 2b) 7 Since this application is in condition for allo closed in accordance with the practice under	This action is non-fin	rmal matters, pro		e merits is				
Disposition of Claims									
4) ☐ Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☒ Claim(s) 25 is/are allowed. 6) ☒ Claim(s) 11,19,22 and 24 is/are rejected. 7) ☒ Claim(s) 17,18,20,21 and 23 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.									
	on Papers	_							
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 									
Priority ι	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachment(s)									
2) Notice (3) Inform	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) 🔲	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	nte					

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 11,19,22,24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Graenicher '752.

Graenicher teaches the instantly claimed process of heating a metal oxide in an atmosphere consisting of oxygen and water vapor and then cooling the metal oxide.

See cols. 3-4 and the claims.

Graenicher may differ in not stating that the process introduces local ionic defects and increases the lithium capacity of the metal oxide.

However Graenicher teaches the instantly claimed process therefore such ionic defects and lithium capacity would also be provided by the taught process.

The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness, see In re Malagari, 182 USPQ 549.

Claims 17,18,20,21,23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Applicant's arguments filed November 26, 2008 have been fully considered but they are not persuasive.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., V_2O_5) are not recited in the rejected independent claim. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Applicant argues that the instant specification discusses that the process is carried out on solids, not melts, and that no new crystals are grown in the instant process, thus Graenicher is non-analogous art.

However limitations from the specification are not read into the claims. The instant claims do not exclude the treatment of melts nor do they exclude the growth of new crystals. Therefore Graenicher is analogous art because it teaches the same heat treatment of the same metal oxide as is instantly claimed.

Applicant argues that the examiner is invoking the doctrine of inherency in the rejection over Graenicher.

However Graenicher teaches the instantly claimed process of heating a metal oxide in an atmosphere consisting of pure moist oxygen, ie. O₂ and H₂O gas, so that it is unclear how such taught heating, which is the same as that instantly claimed, would not also "introduce local ionic defects and increase the lithium capacity" precisely because it is the same heating process as is instantly claimed.

With regard to overlapping ranges and result effective variables the taught oxygen flowrate appears to be within that instantly claimed or at least overlapping (col. 2, lines 54-56) as well as the taught cooling (col. 4, lines 39-40).

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Bos whose telephone number is 571-272-1350. The examiner can normally be reached on M-F, 9AM to 6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stan Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Steven Bos/ Primary Examiner Art Unit 1793